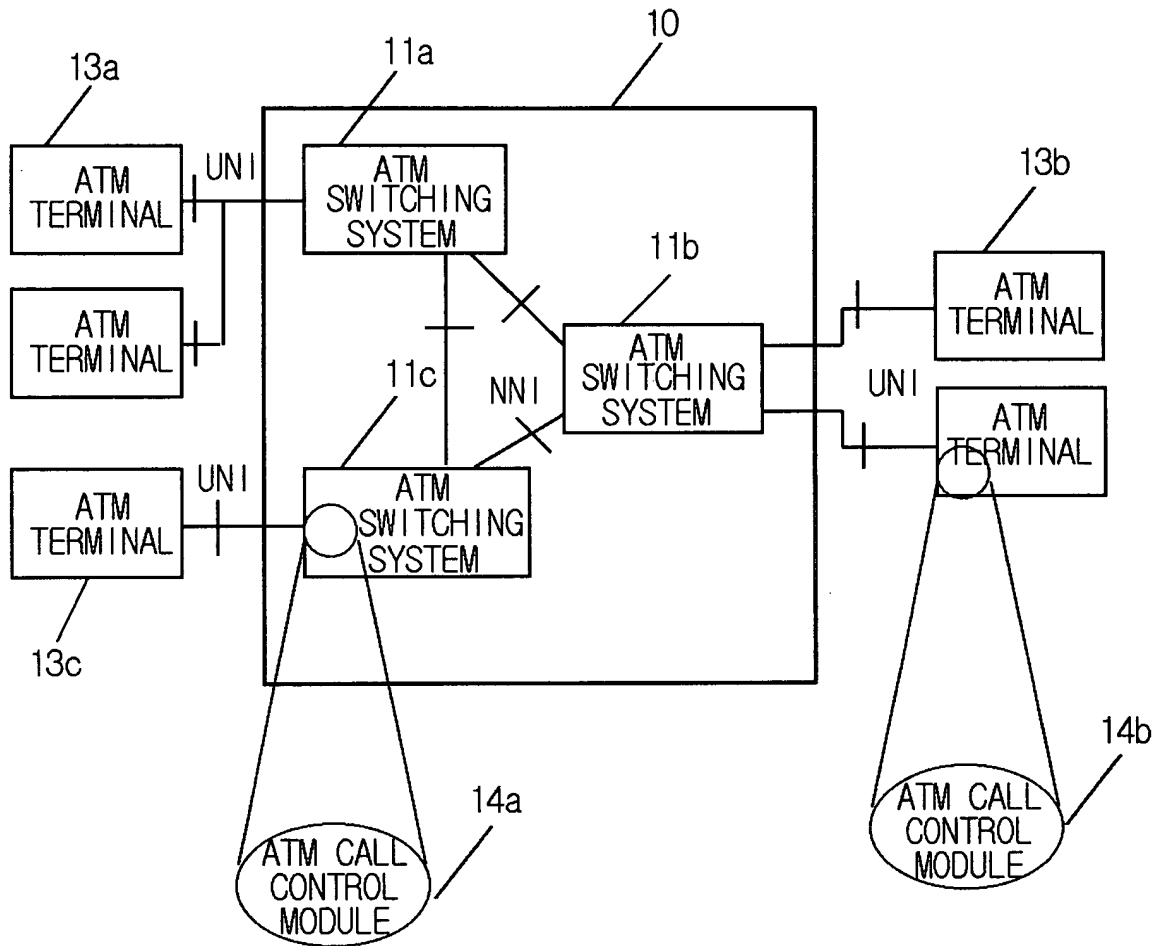


FIG. 1



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FIG. 2

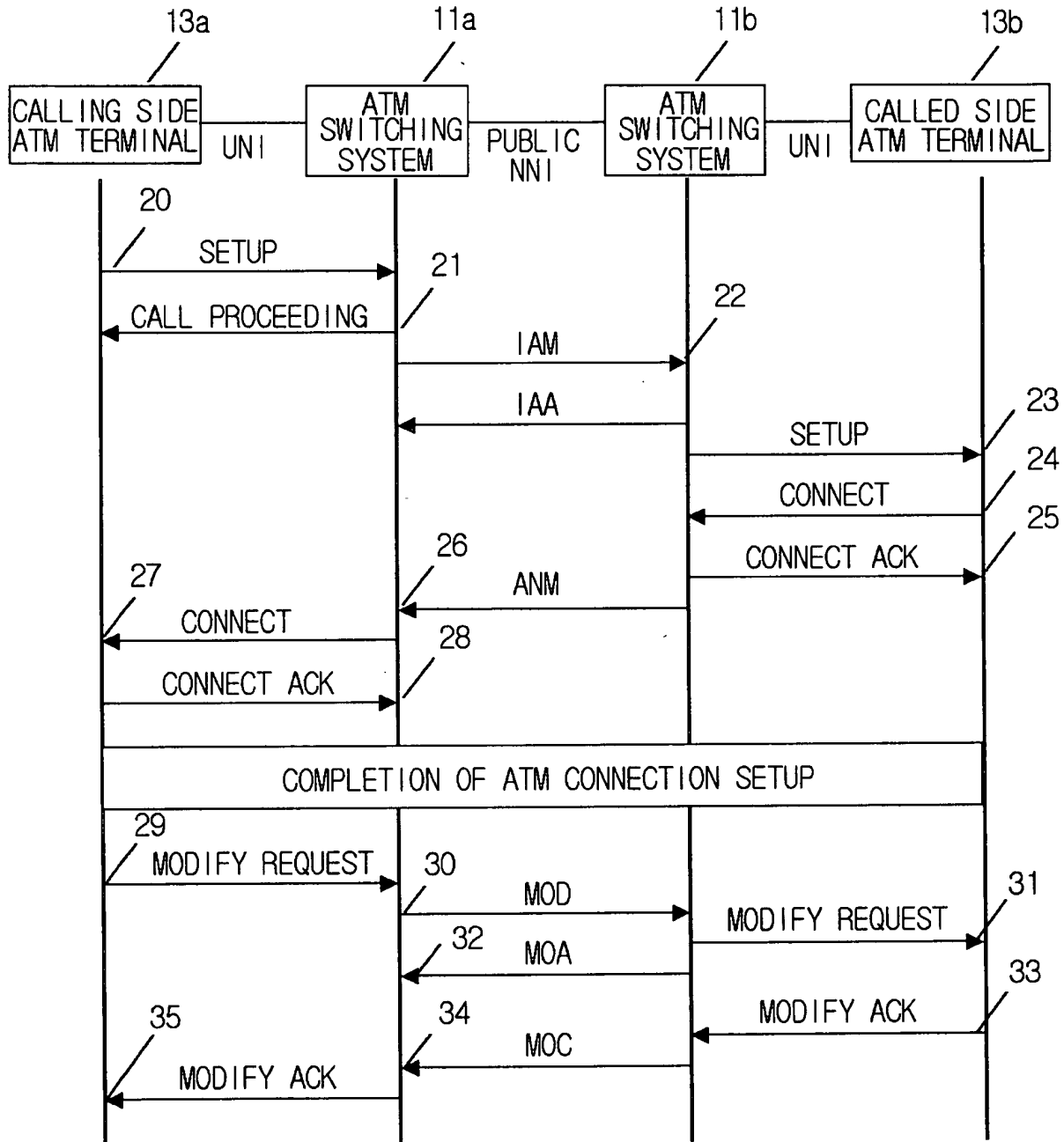


FIG. 3

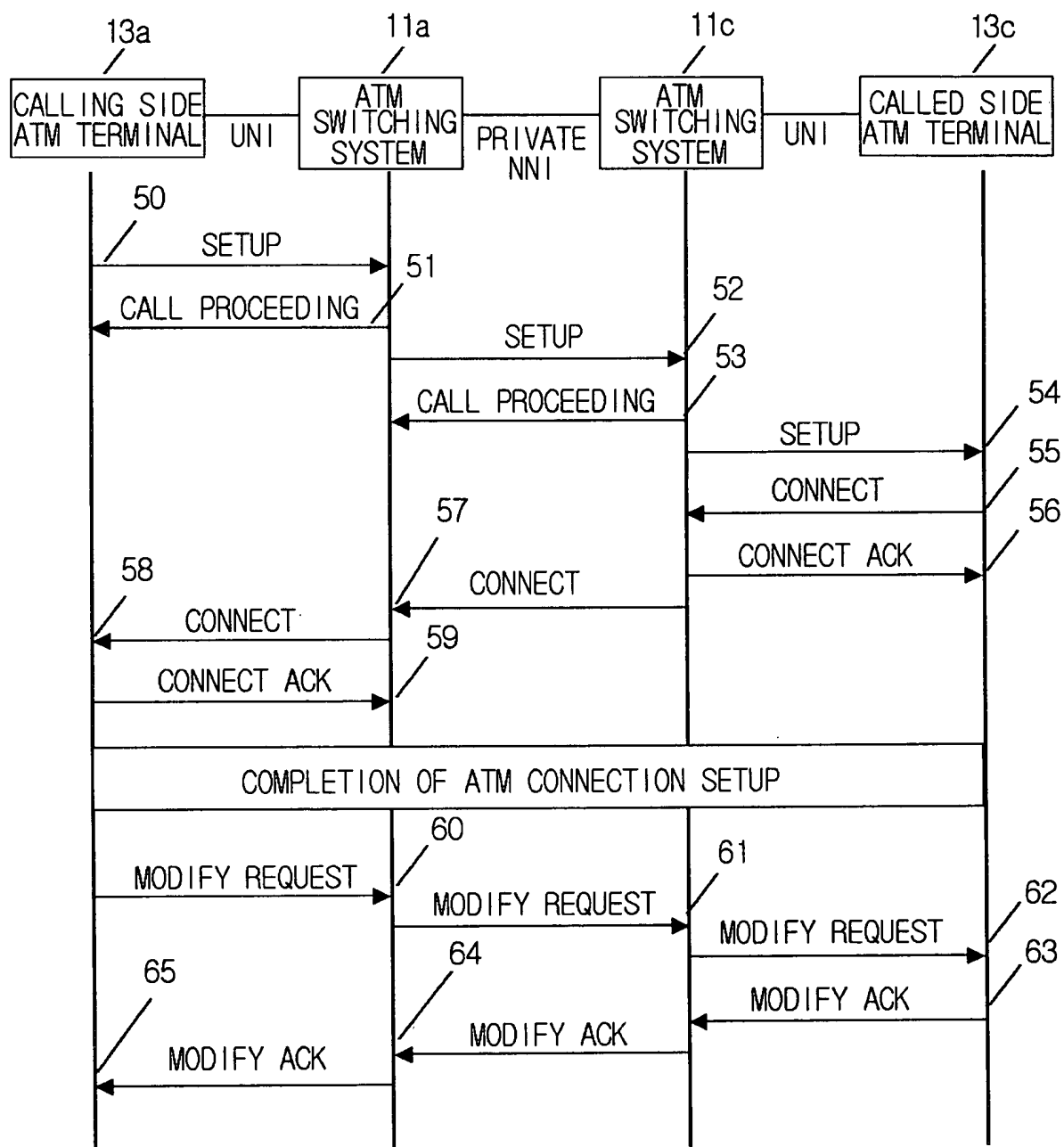


FIG. 4

| Information element                       | Type      | Note  |
|---|-----------|---|
| Protocol discriminator                    | Mandatory |   |
| Call reference                            | Mandatory |   |
| Message type                              | Mandatory |   |
| Message length                            | Mandatory |   |
| ABR setup parameter                       | Optional  | Necessary information element in requesting ABR traffic         |
| ATM traffic descriptor                    | Mandatory |   |
| Broadband bearer capability               | Mandatory |   |
| Broadband sending complete                | Mandatory | Necessary information element in En bloc address signaling      |
| Called party number                       | Mandatory |   |
| Minimum acceptable ATM traffic descriptor | Optional  | Necessary information element in ATM traffic negotiation        |
| Narrowband bearer capability              | Optional  | Necessary information element in NISDN cooperation              |
| QoS parameter                             | Mandatory |   |
| Soft PVC called endpoint                  | Optional  | Necessary information element in requesting soft PVC connection |
| Soft PVC calling endpoint                 | Optional  |   |
| Generic identifier transport              | Optional  | Necessary information element in internet cooperation           |

FIG. 5

| Information element    | Type | Note                                   |
|------------------------|------|--|
| Protocol discriminator | M    |  |
| Call reference         | M    |  |
| Message type           | M    |  |
| Message length         | M    |  |
| ATM traffic descriptor | M    | ATM traffic information to be modified |

*FIG. 6*

- Bearer class
  - BCOB-A
  - BCOB-C
  - BCOB-X
  - Transparent VP Service
- ATM transfer capability(ATC)
  - Deterministic Bit Rate(DBR)
  - Statistical Bit Rate(SBR)
  - Available Bit Rate(ABR)
  - Unspecified Bit Rate(UBR)
- User plane connection configuration
  - Point-to-Point(PtP)
  - Point-to-Multipoint(PtMP)

*FIG. 7*

- Identifier related standard/application
  - IPv4
  - ST2+
  - IPv6
  - MPLS
  - MPOA
- Identifier type
  - Session
  - Resource
  - MPOA VPN identifier
  - Experimental/organization specific identifier

FIG. 8

| ATM connection type  | PtP | PtMP | DBR | SBR | ABR | UBR | NISDN Cooperation | IP Cooperation | Traffic negotiation | Traffic modification | Soft-Pvc |
|----------------------|-----|------|-----|-----|-----|-----|-------------------|----------------|---------------------|----------------------|----------|
| PtP                  | -   | -    | o   | o   | o   | o   | o                 | o              | o                   | o                    | o        |
| PtMP                 | -   | -    | o   | o   | x   | o   | x                 | o              | o                   | o                    | o        |
| DBR                  | o   | o    | -   | -   | -   | -   | o                 | o              | o                   | o                    | o        |
| SBR                  | o   | o    | -   | -   | -   | -   | x                 | o              | o                   | o                    | o        |
| ABR                  | o   | x    | -   | -   | -   | -   | x                 | o              | o                   | o                    | o        |
| UBR                  | o   | o    | -   | -   | -   | -   | x                 | o              | x                   | x                    | o        |
| NISDN cooperation    | o   | x    | o   | x   | x   | x   | -                 | -              | x                   | x                    | x        |
| IP cooperation       | o   | o    | o   | o   | o   | o   | -                 | -              | o                   | o                    | o        |
| Traffic negotiation  | o   | o    | o   | o   | o   | o   | x                 | o              | -                   | o                    | o        |
| Traffic modification | o   | o    | o   | o   | o   | o   | x                 | o              | o                   | -                    | o        |
| Soft-PVC             | o   | o    | o   | o   | o   | o   | x                 | o              | o                   | o                    | -        |

o: Combination possible, x: Combination impossible, -: Rejected

# FIG. 9

<Sentence>

SYNMODE powerset\_mode=POWERSET(atm\_connection\_type\_list);

<Example>

- ① SYNMODE protocol\_type=SET(dss2,uni3.1,uni4.0,bisup,bici,pnni)
- ② SYNMODE connection\_conf=SET(ptp,ptmp);
- ③ SYNMODE atc=SET(dbr,sbr,abr,ubr);
- ④ SYNMODE bearer\_class=SET(vc,vp);
- ⑤ SYNMODE traffic\_negotiation=BOOL;
- ⑥ SYNMODE traffic\_modification=BOOL;
- ⑦ SYNMODE service\_type=SET(atm,nisdn,ip,fr);
- ⑧ SYNMODE connection\_owner=SET(calling,called);
- ⑨ SYNMODE address\_type=SET(en\_bloc,overlap);
- ⑩ SYNMOCE soft\_pvc=BOOL;

<Memory used for SET mode and BOOLEAN mode>

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | BIT / BYTE |
|---|---|---|---|---|---|---|---|------------|
|   |   |   |   |   |   |   |   | 1          |
|   |   |   |   |   |   |   |   | 2          |
|   |   |   |   |   |   |   |   | :          |
|   |   |   |   |   |   |   |   | 10         |

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*FIG. 10*

<Sentence>

SYNMODE powerset\_mode=POWERSET(atm\_connection\_type\_list);

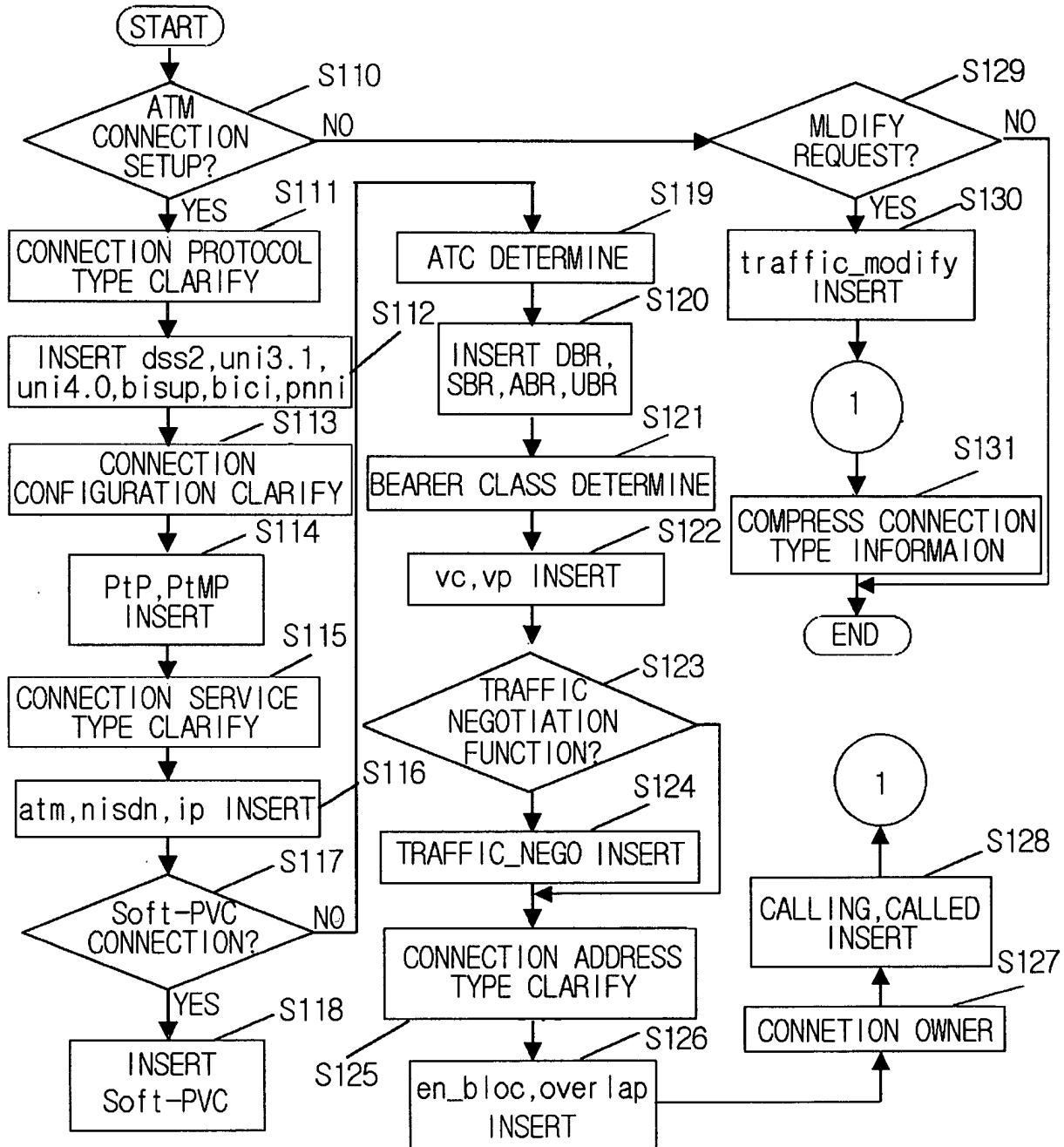
<Example>

SYNMODE atm\_connection\_type\_list=SET(dss2,uni3.1,uni4.0,bisup,bici,pnni,ptp,ptmp,dbr,sbr,abr,ubr,vc,vp,traffic\_nego,traffic\_modify,atm,nisdn,ip,calling,called,en\_bloc,overlap,soft\_pvc);

<Memory used for POSERSET mode>

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | BIT / BYTE |
|---|---|---|---|---|---|---|---|------------|
|   |   |   |   |   |   |   |   | 1          |
|   |   |   |   |   |   |   |   | 2          |
|   |   |   |   |   |   |   |   | 3          |
|   |   |   |   |   |   |   |   | 4          |

FIG. 11



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